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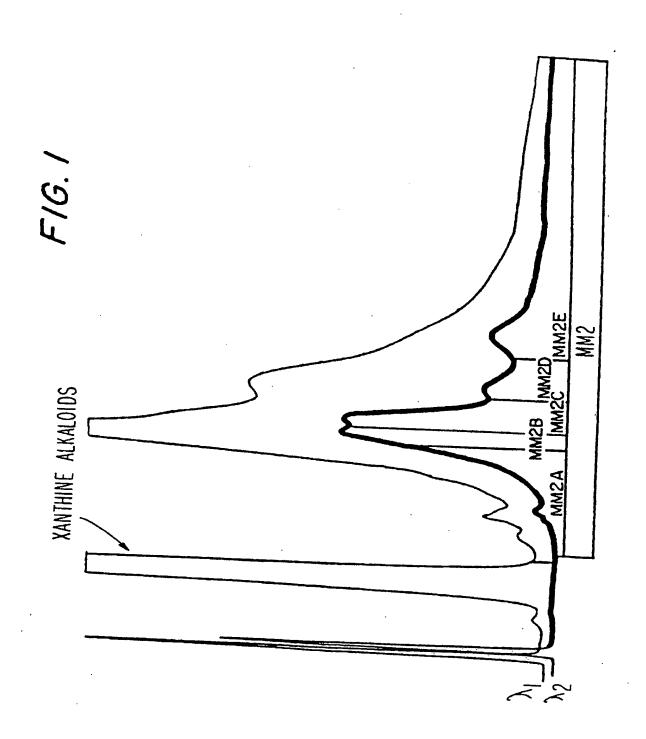
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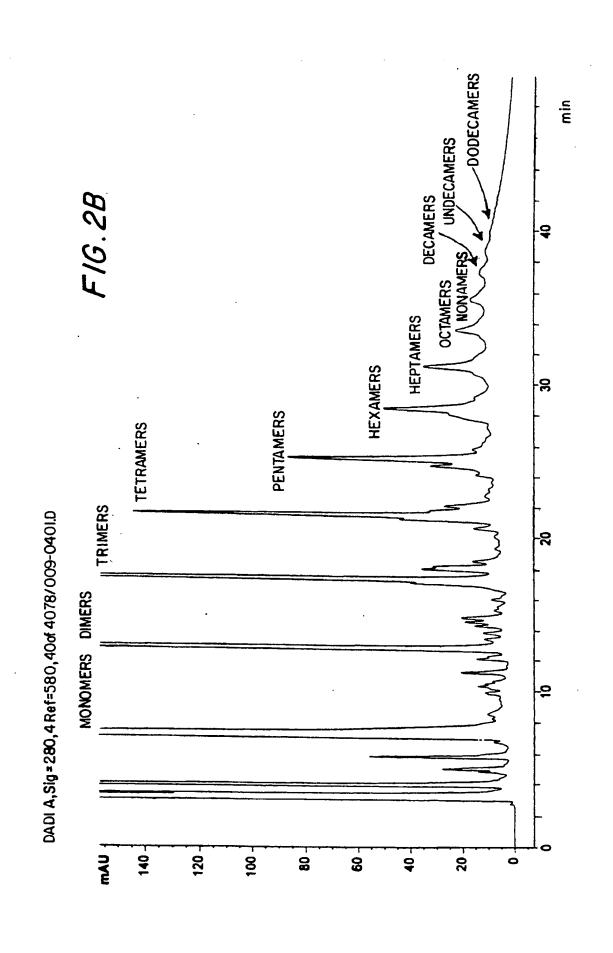
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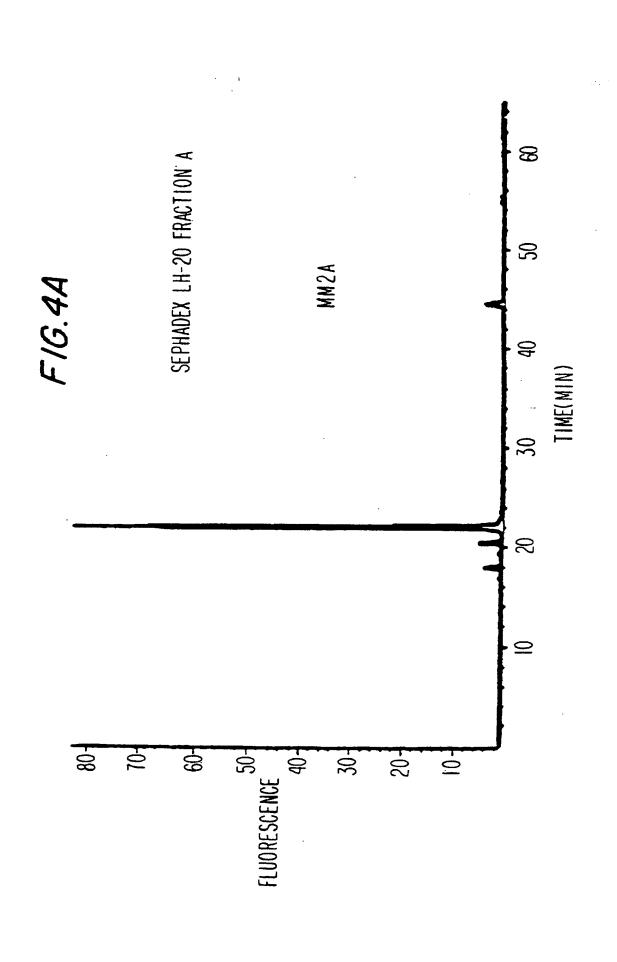
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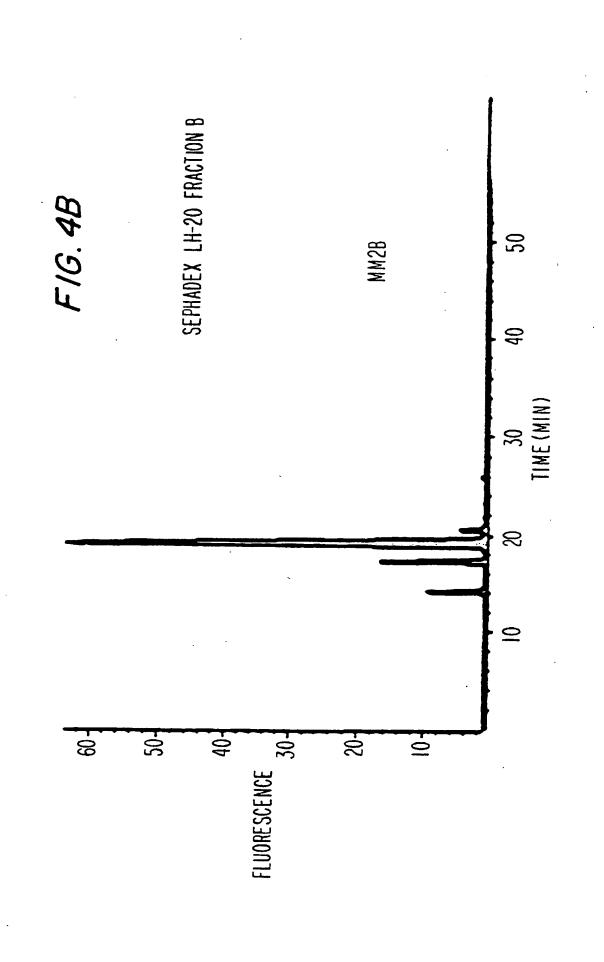


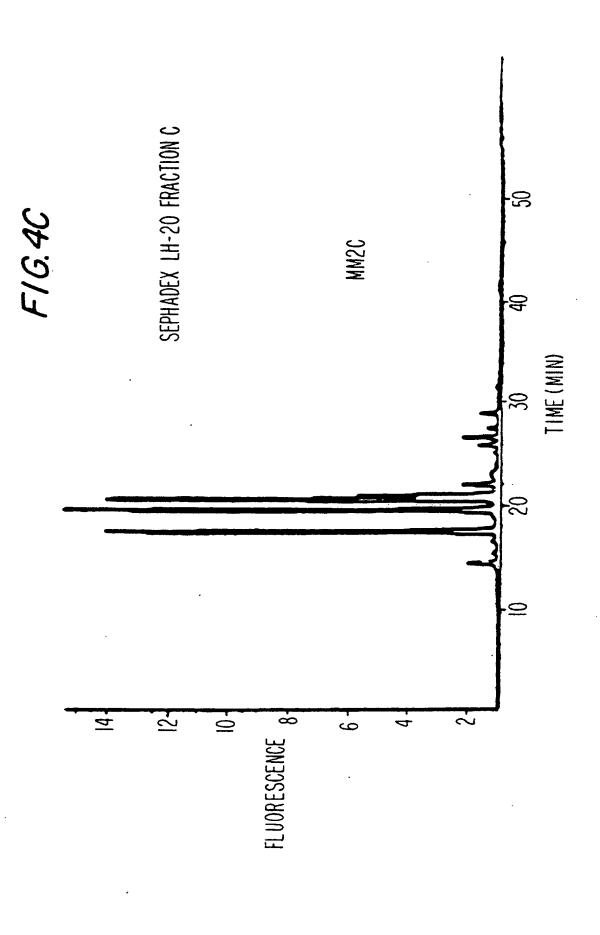


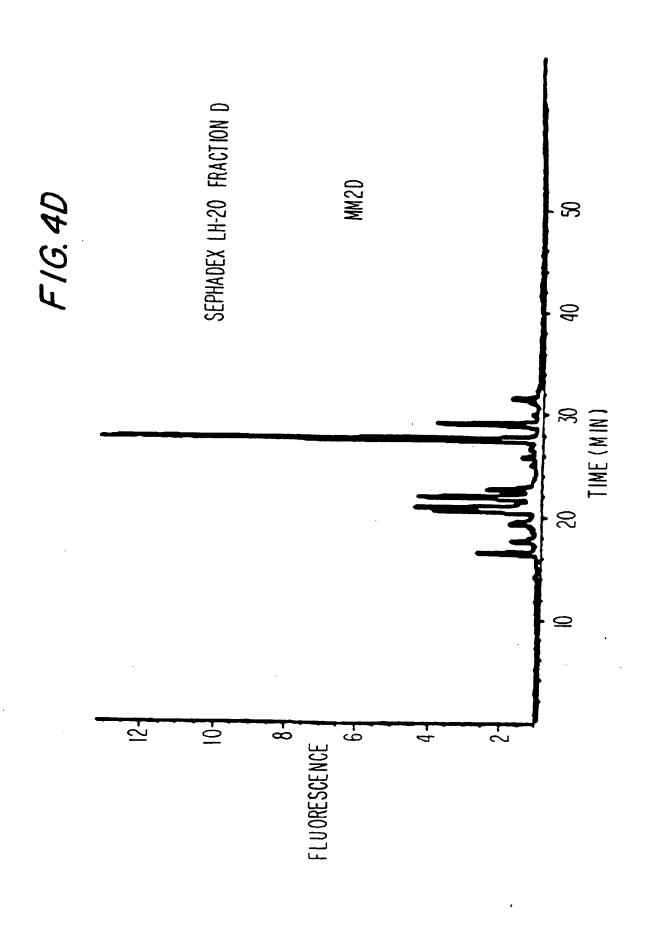
PROCYANIDIN OLIGOMERS n= 2 THROUGH 5

F1G.3

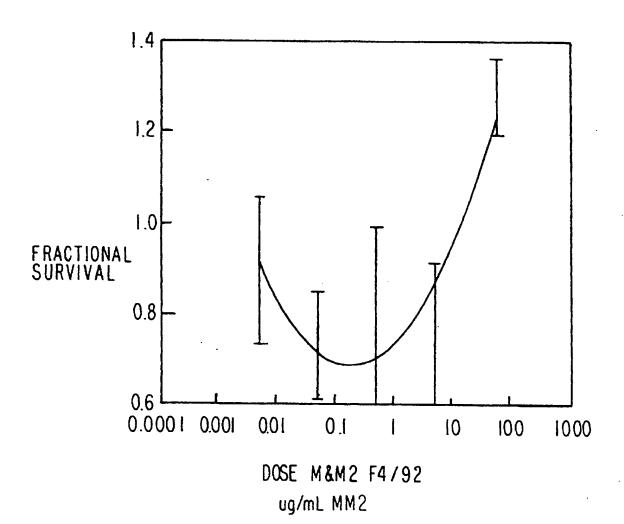


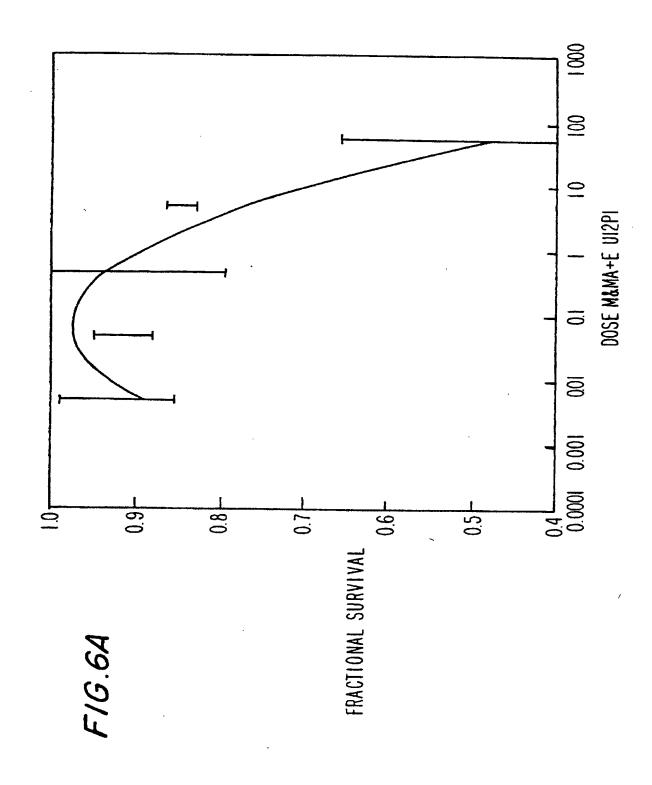


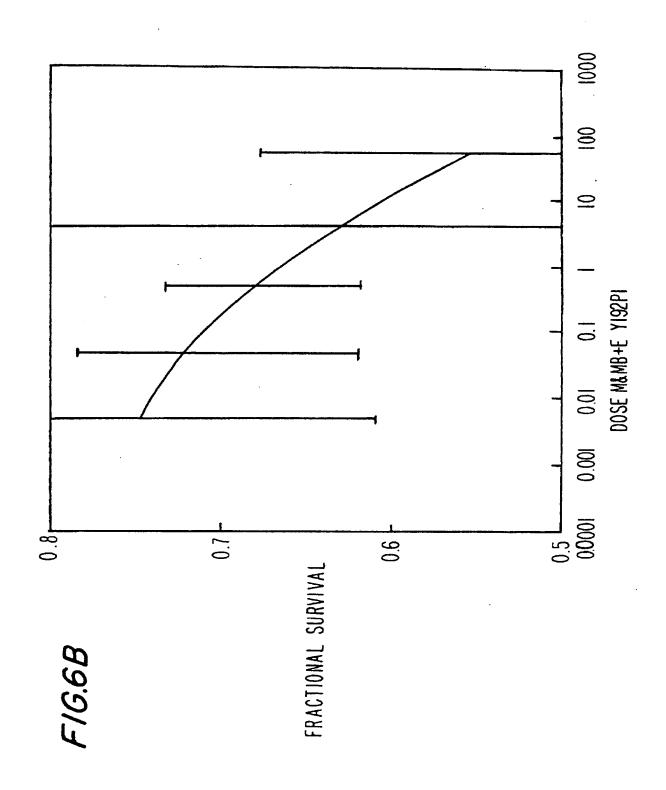


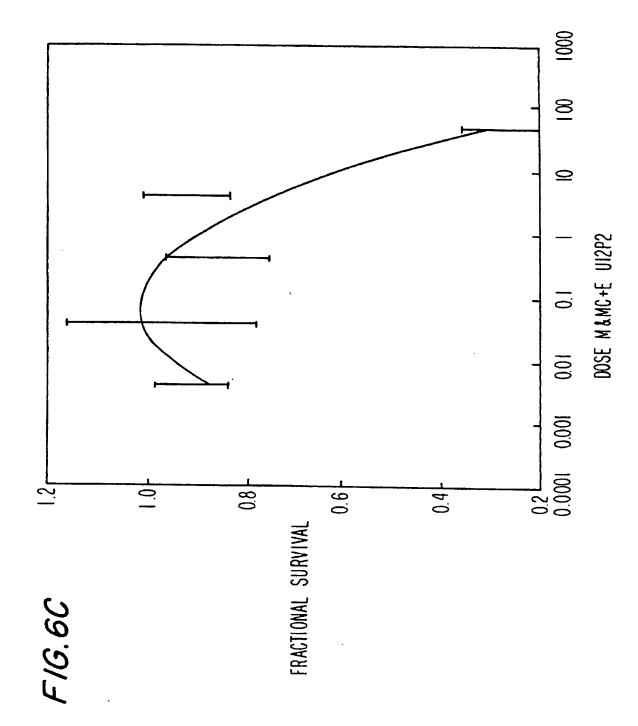


SEPHADEX LH-20 FRACTION E F1G. 4E MM2E 20 TIME (MIN) 8 23 FL U ORESCENCE

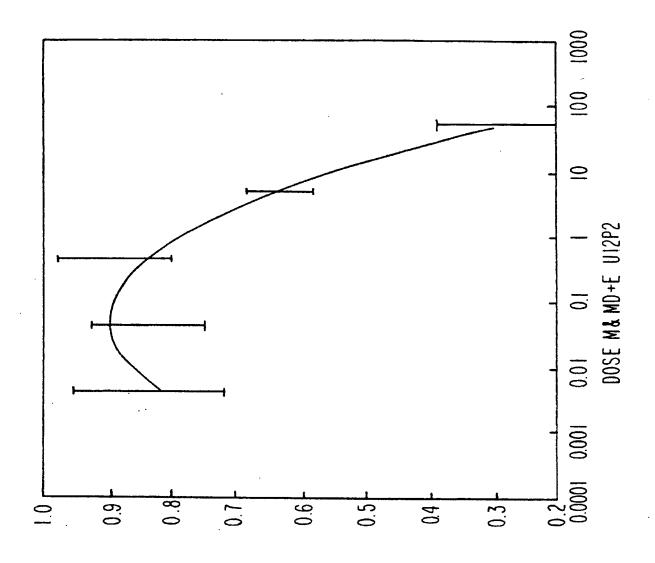






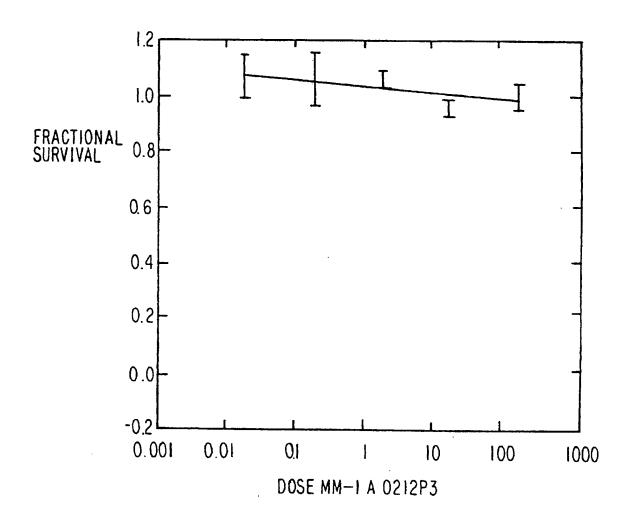


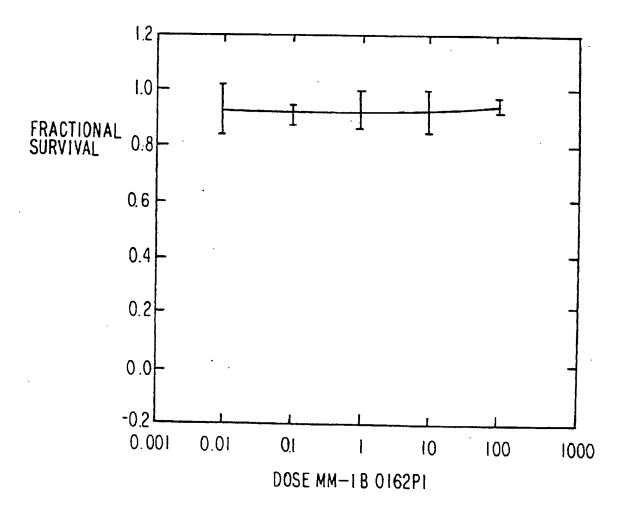


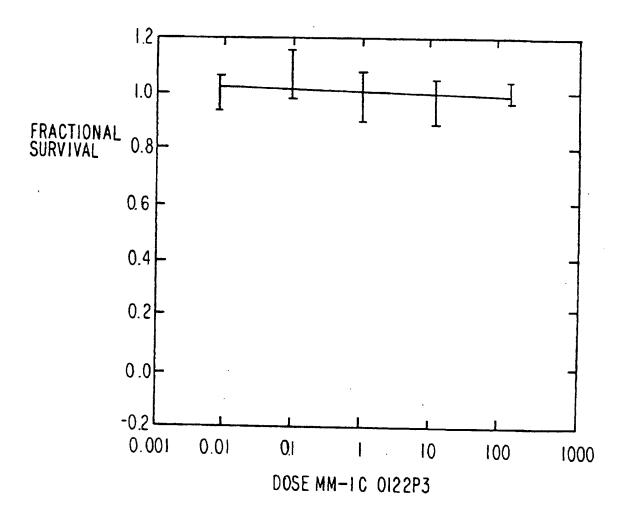


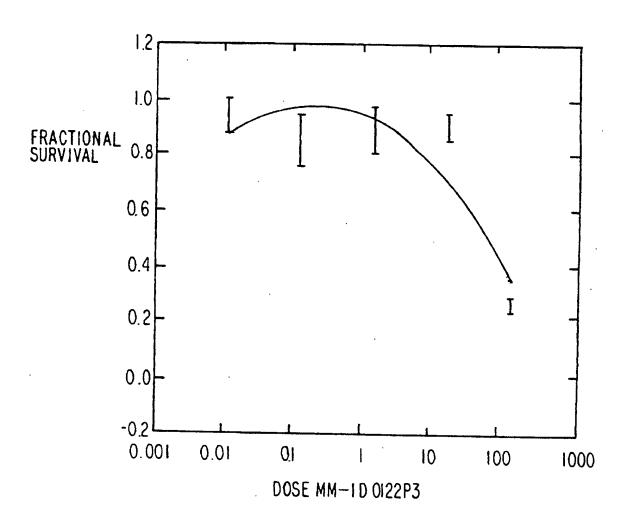
FRACTIONAL SURVIVAL

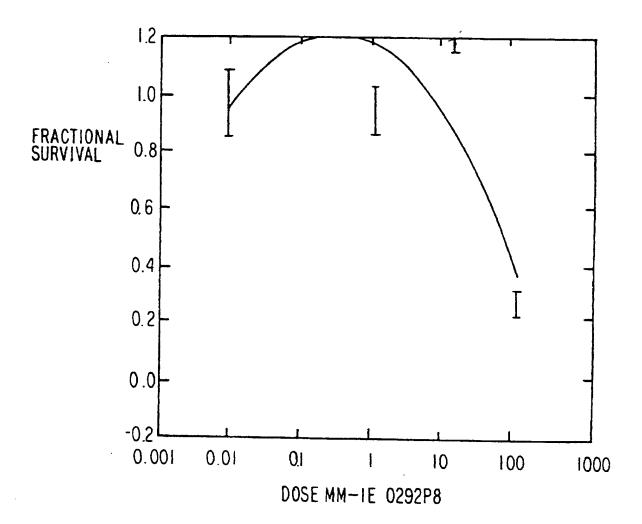
FIG. 7A

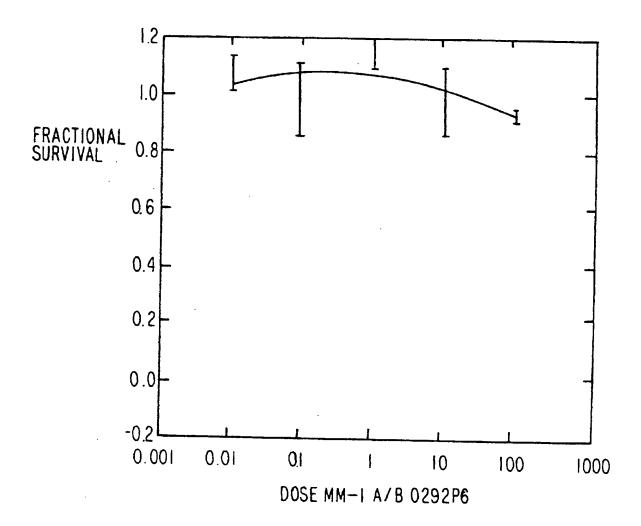


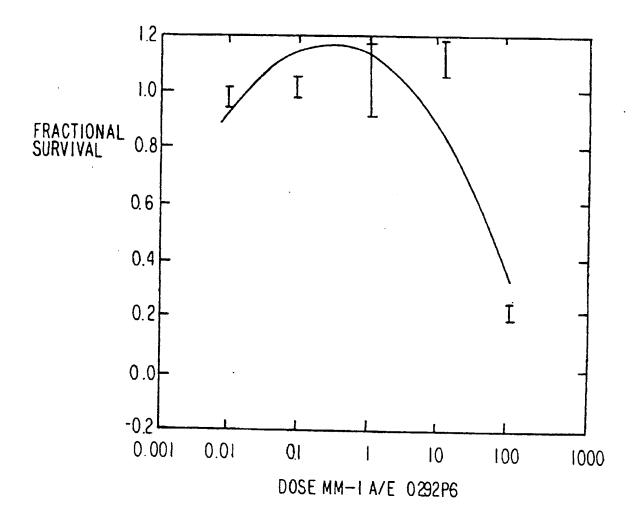


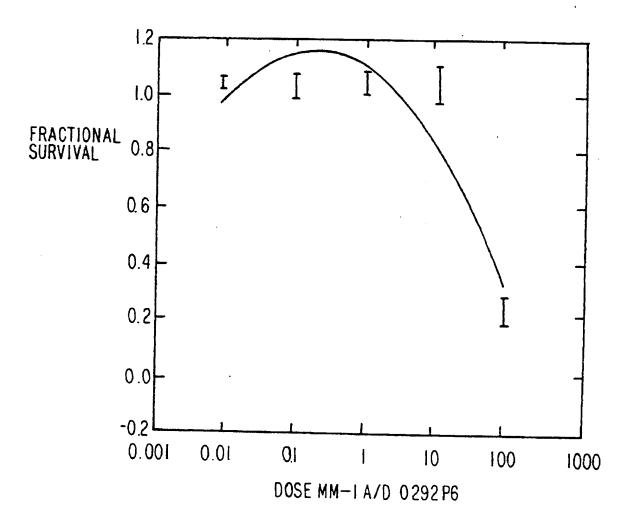


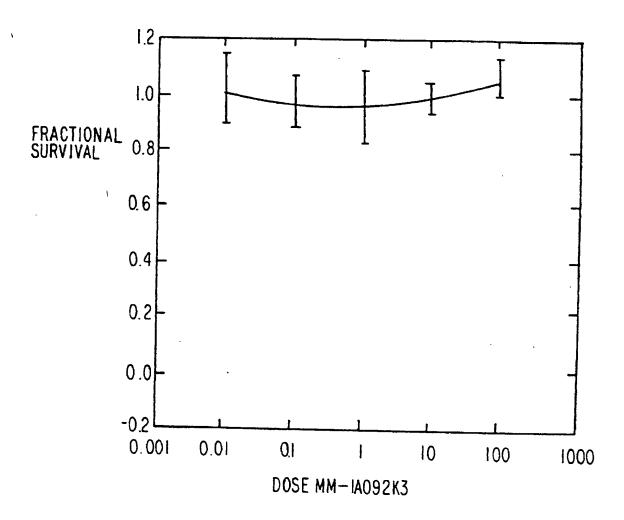


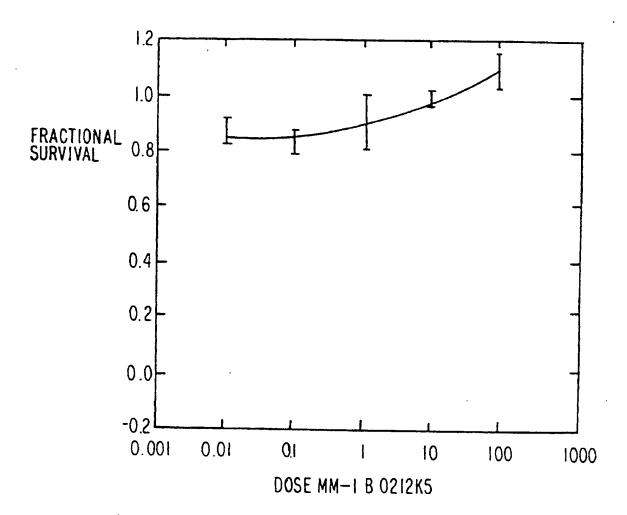


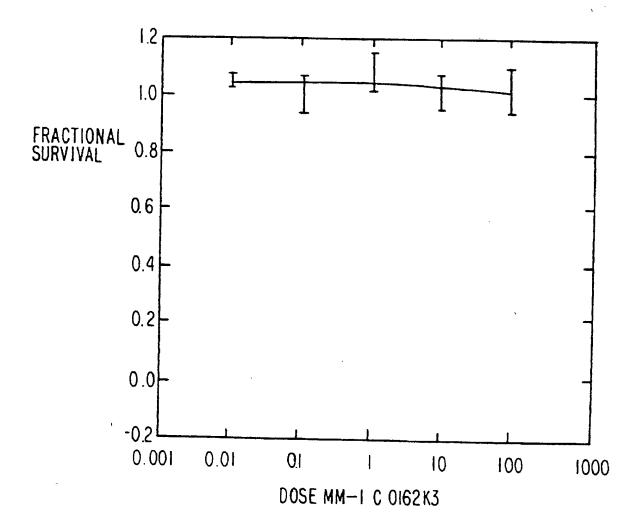












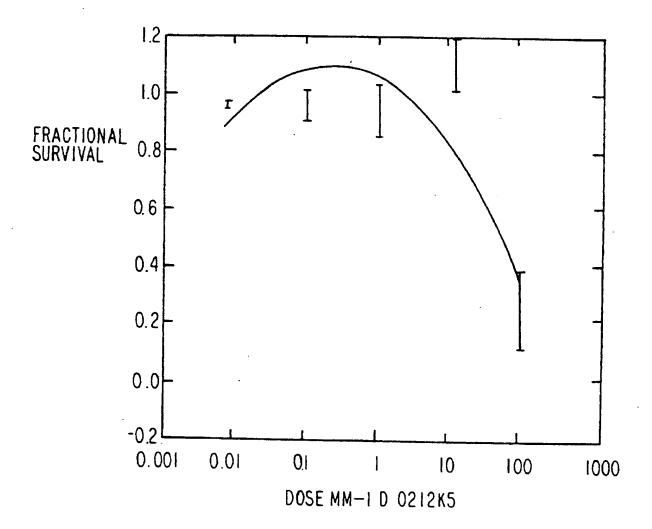
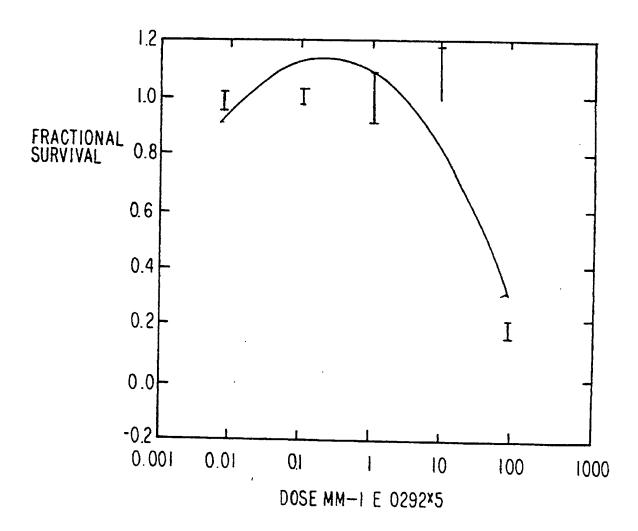
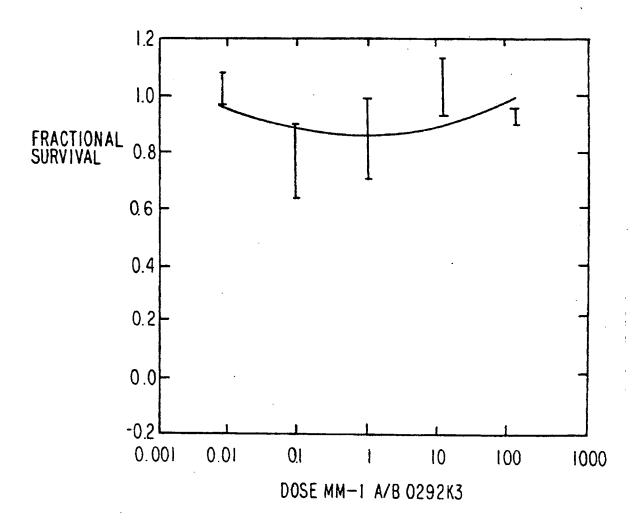
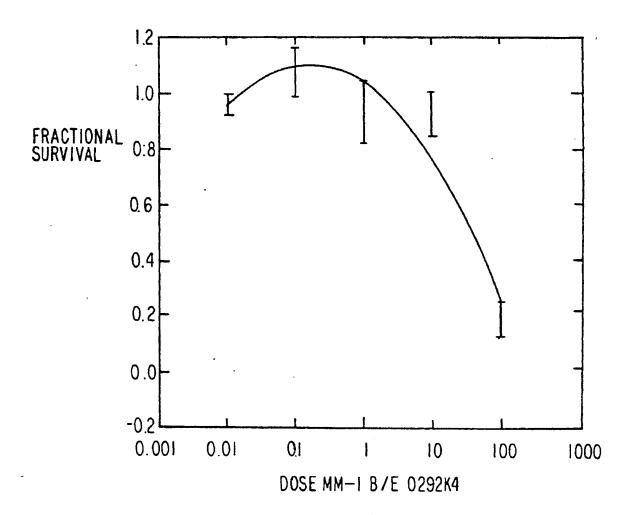
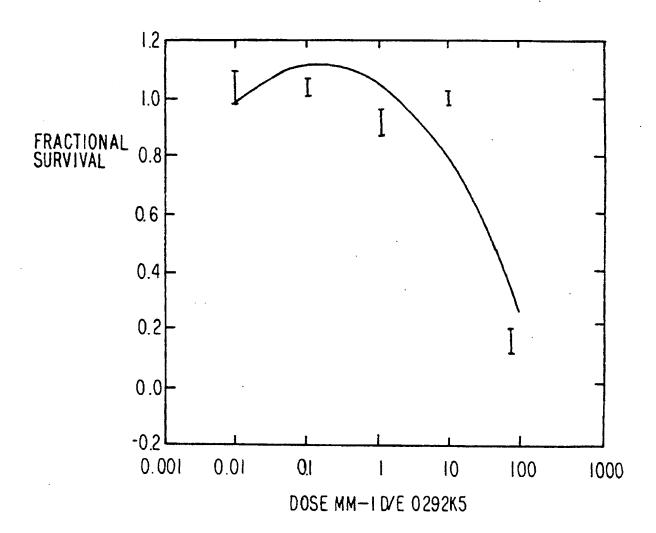


FIG.8E









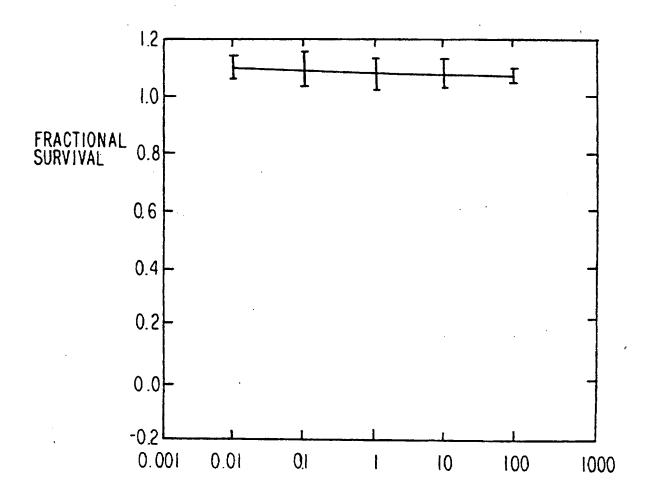
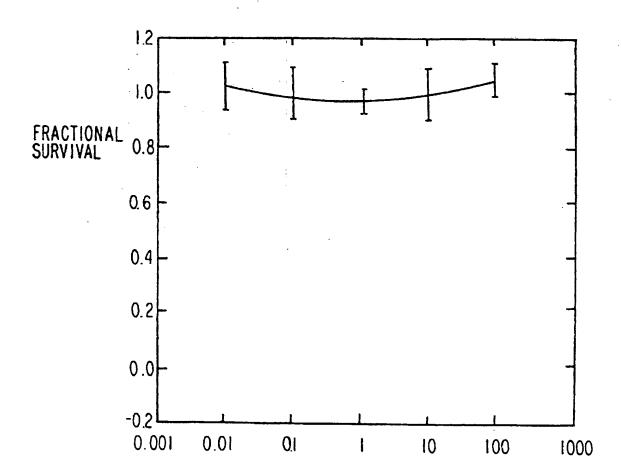
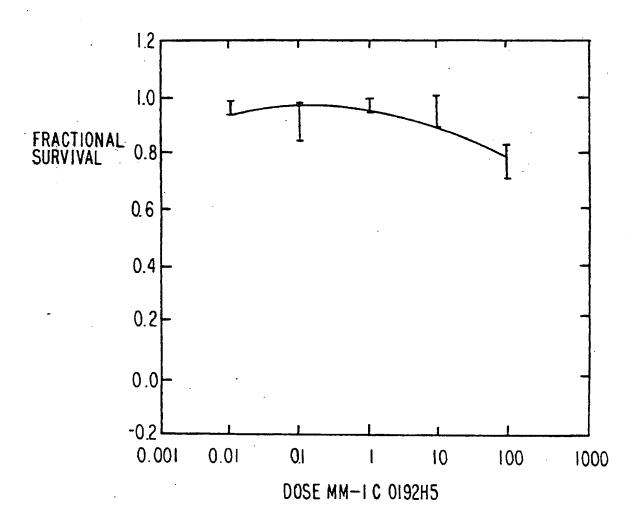
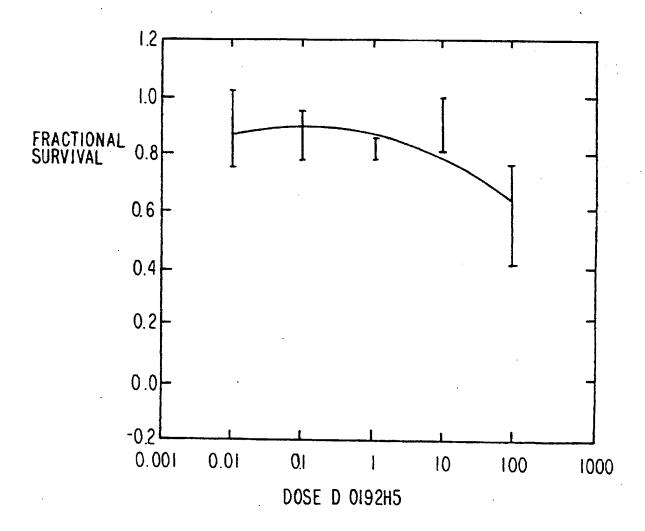
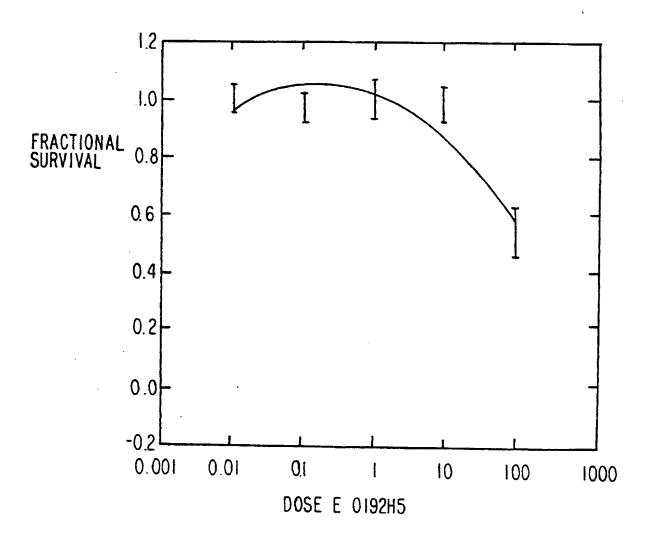


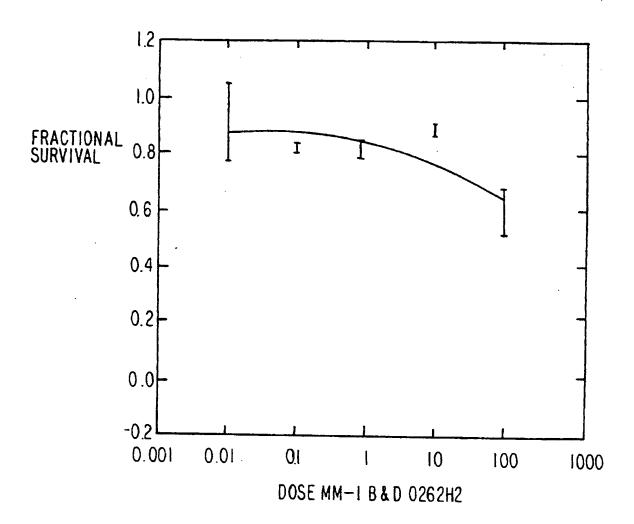
FIG.9B

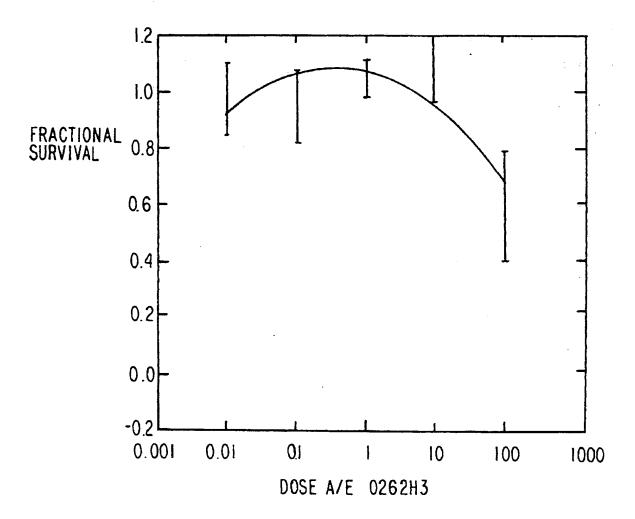


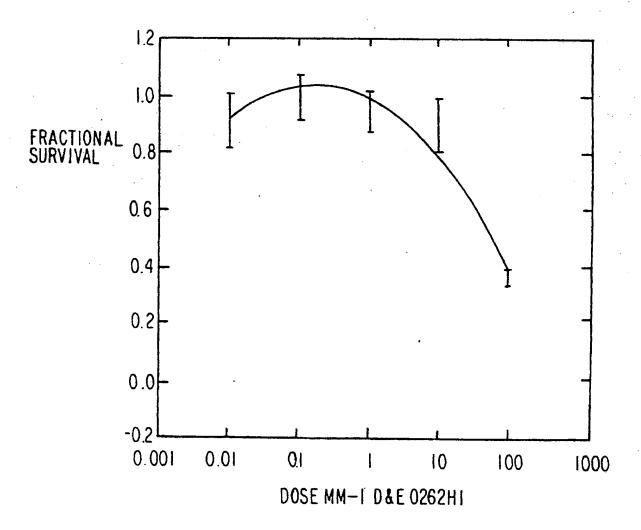


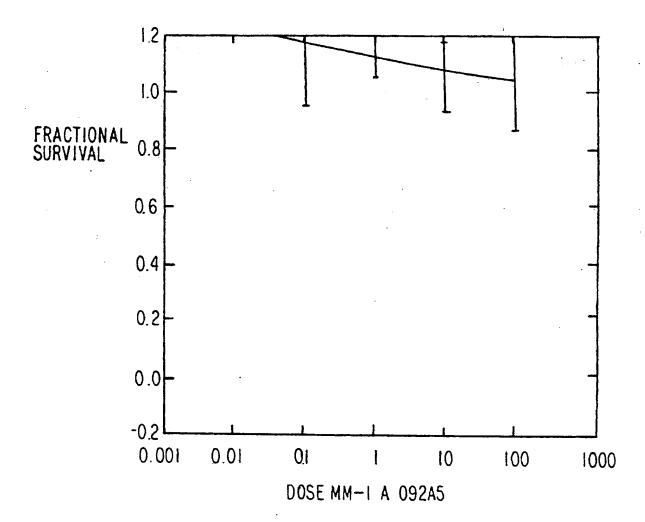


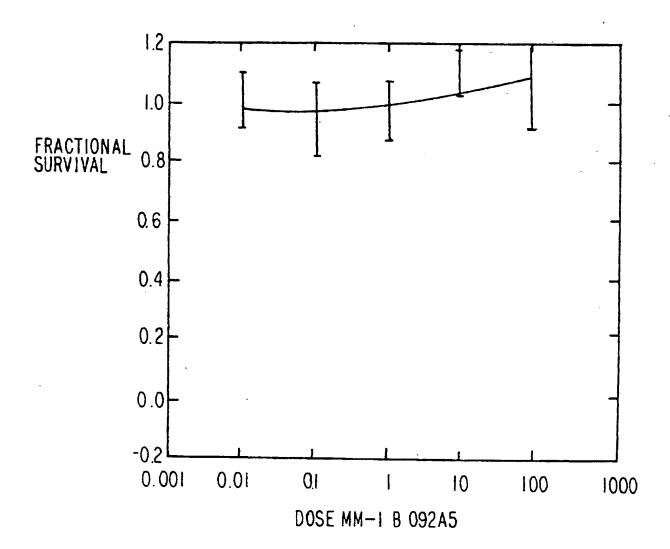


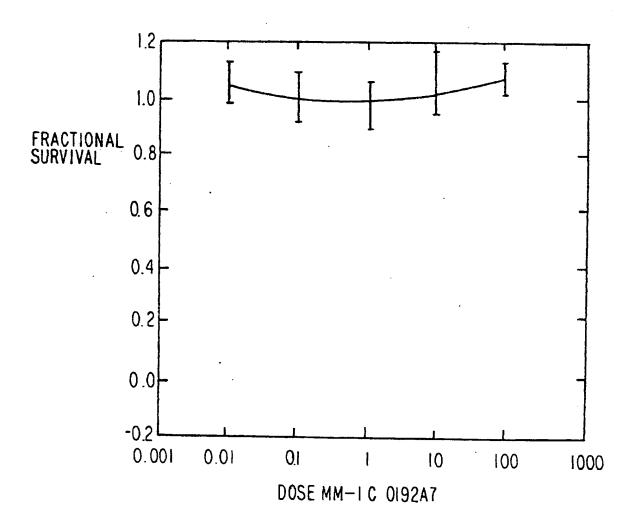


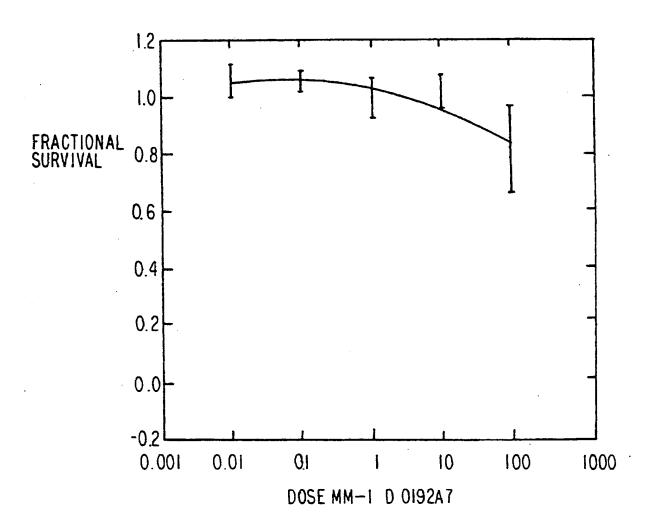


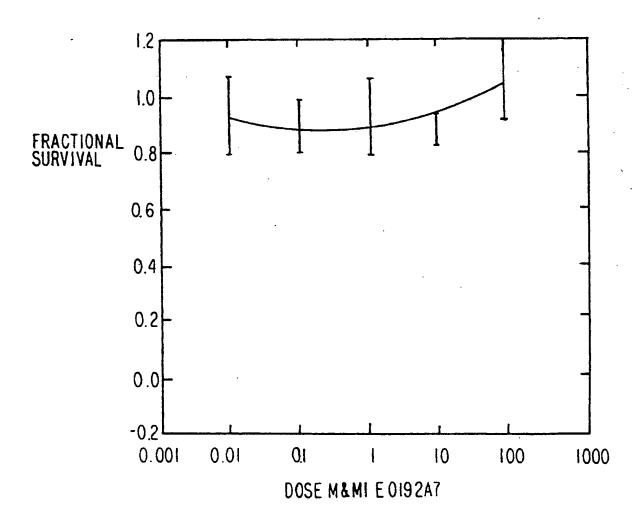


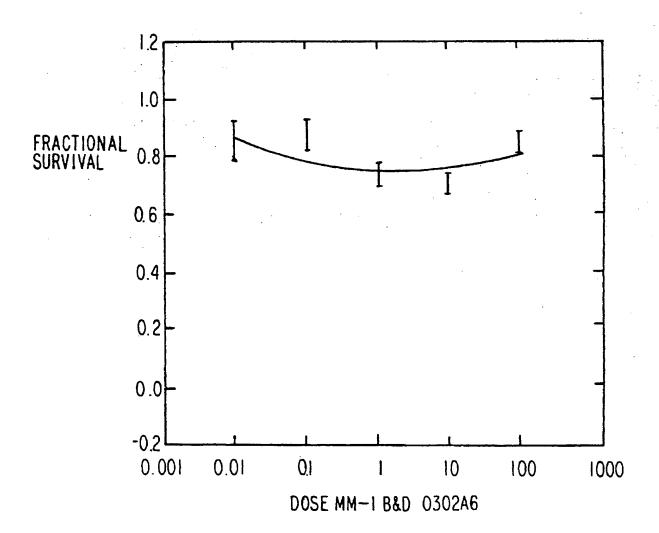












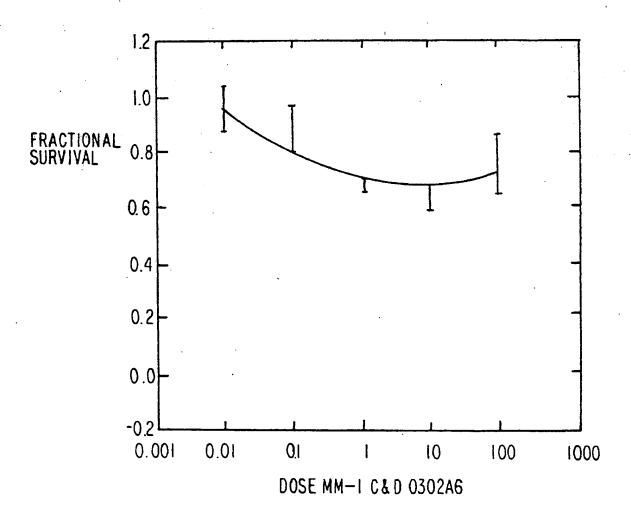
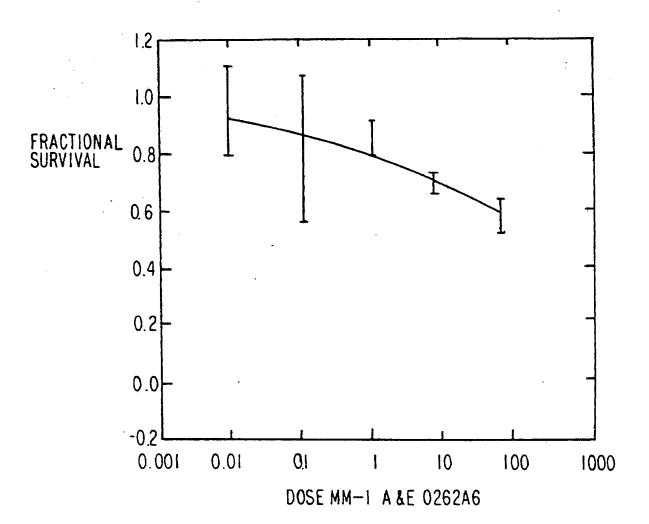
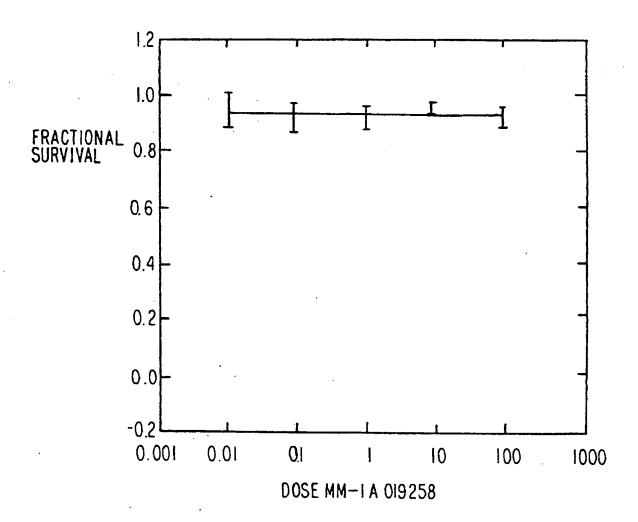
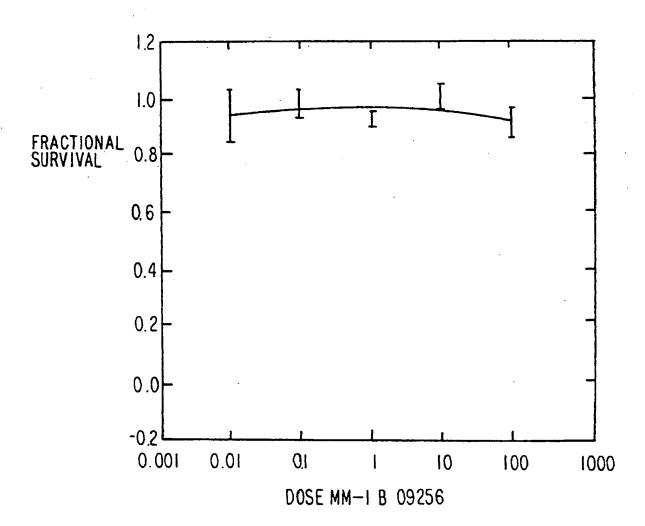
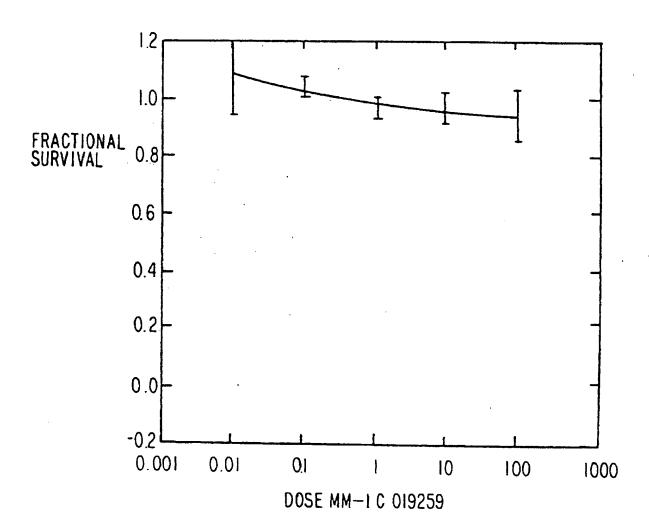


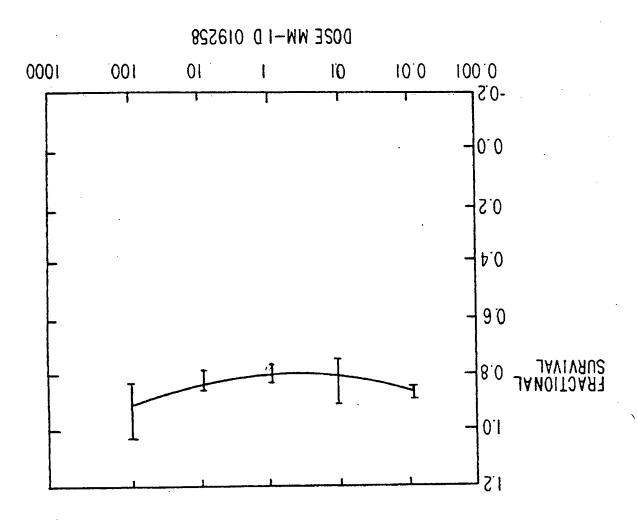
FIG. 10H

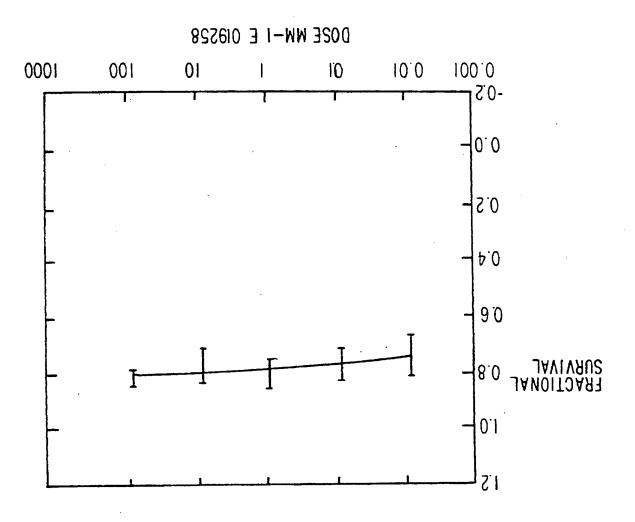


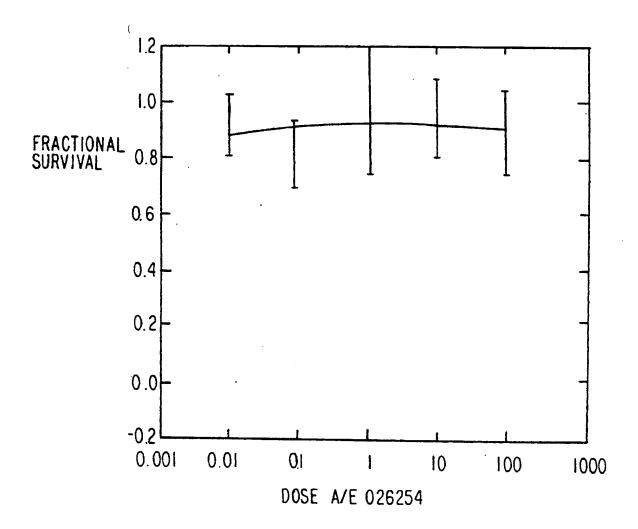


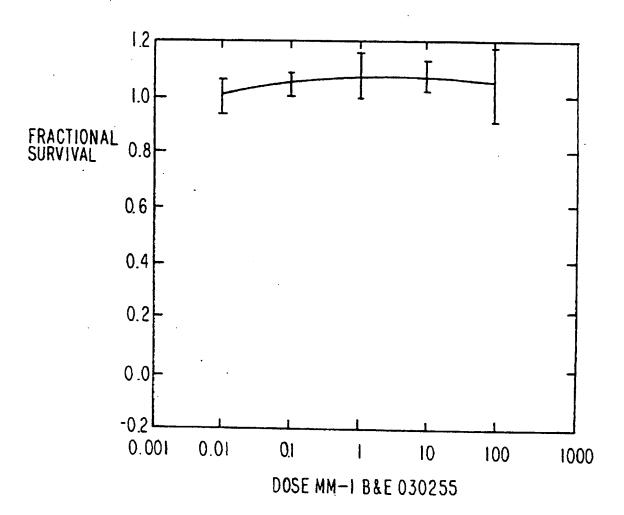


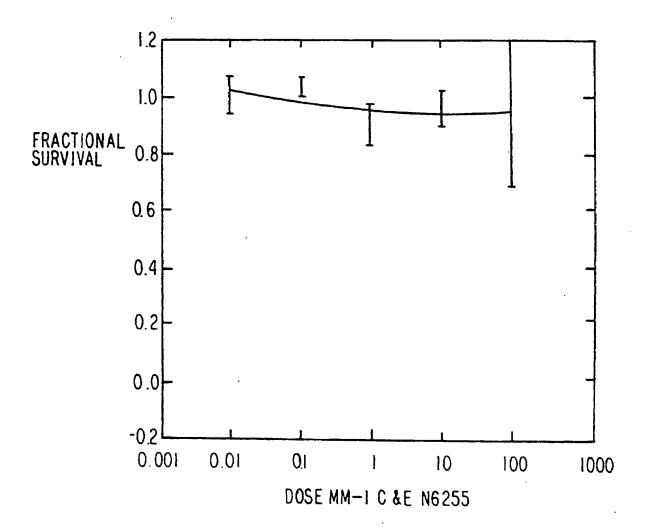


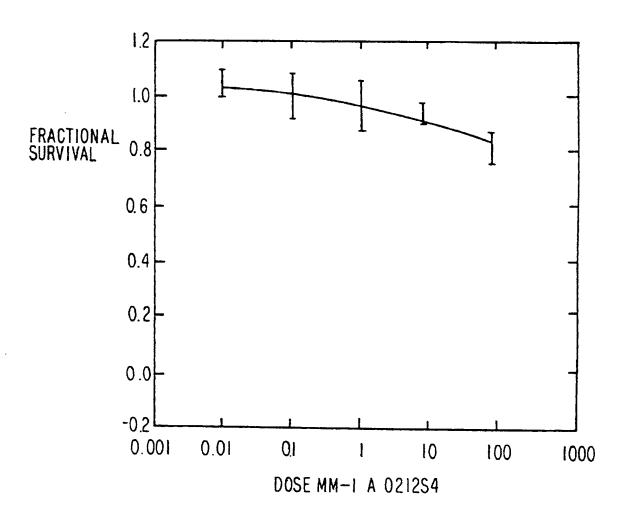


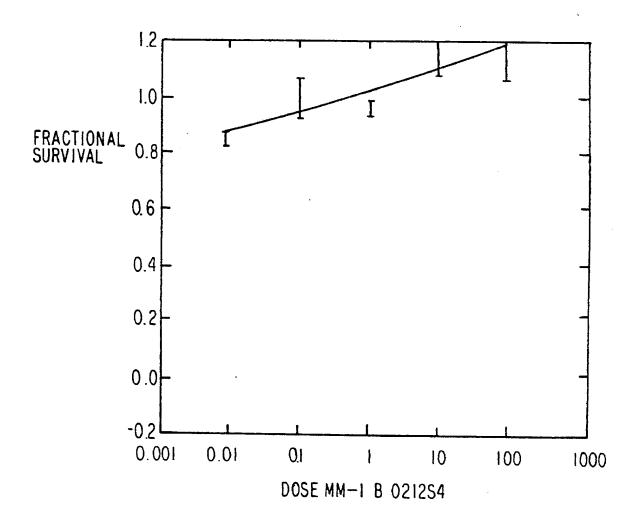


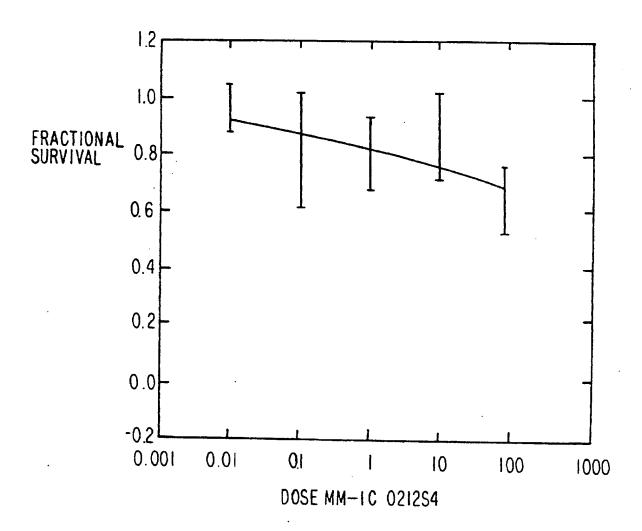


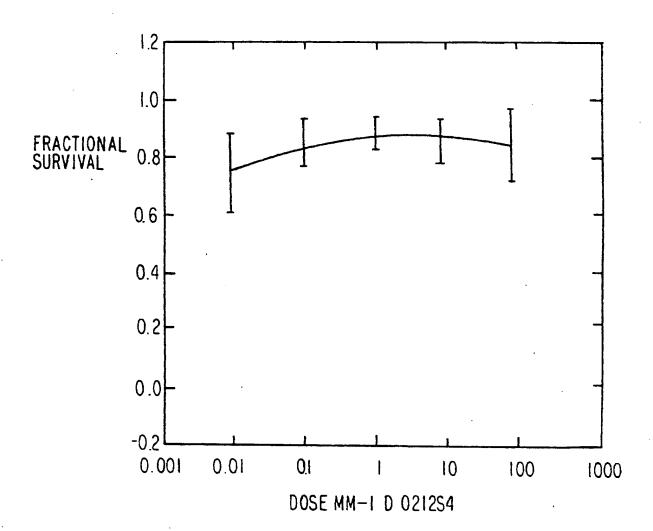












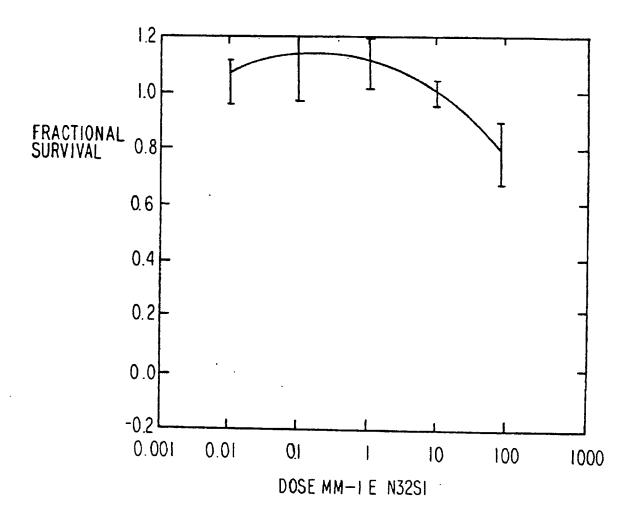
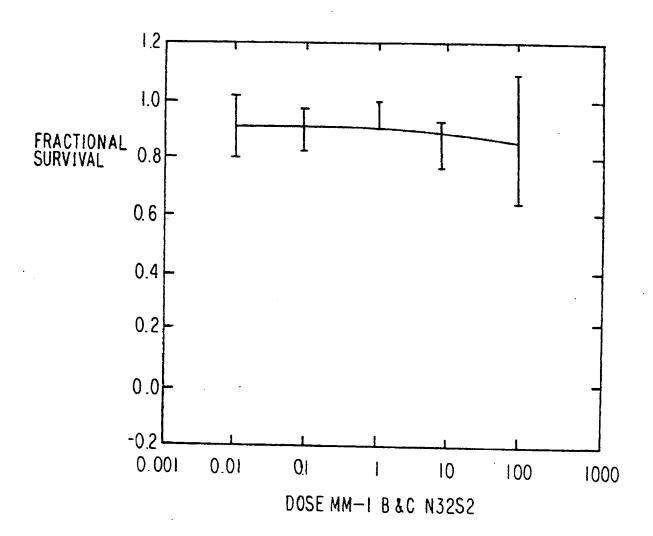
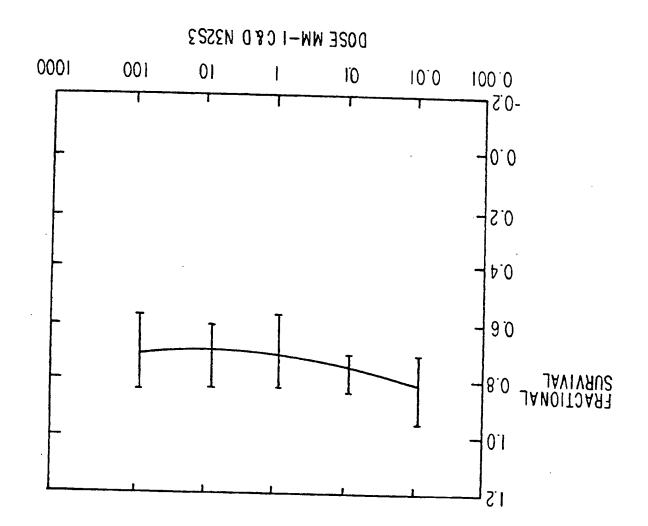
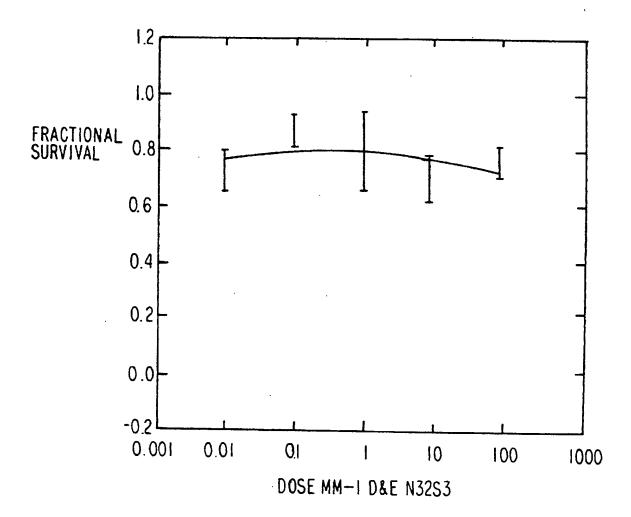
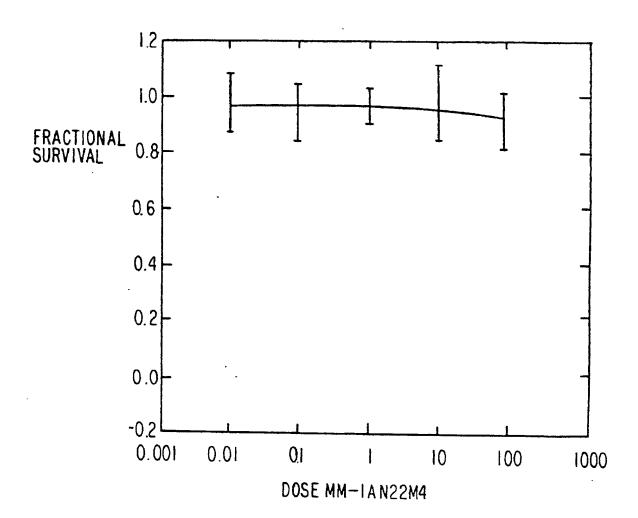


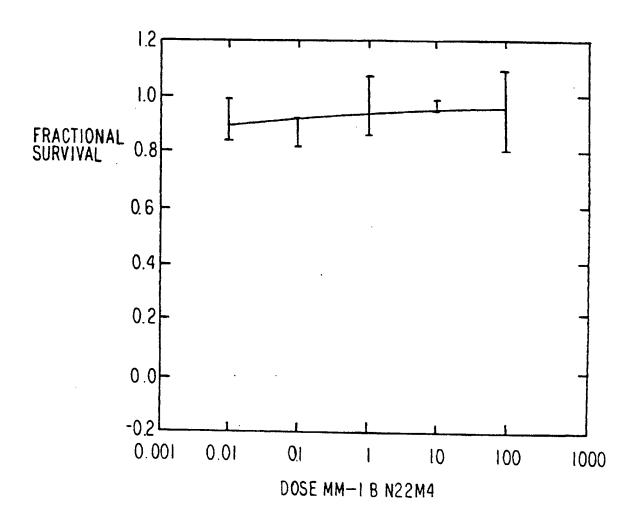
FIG. 12F

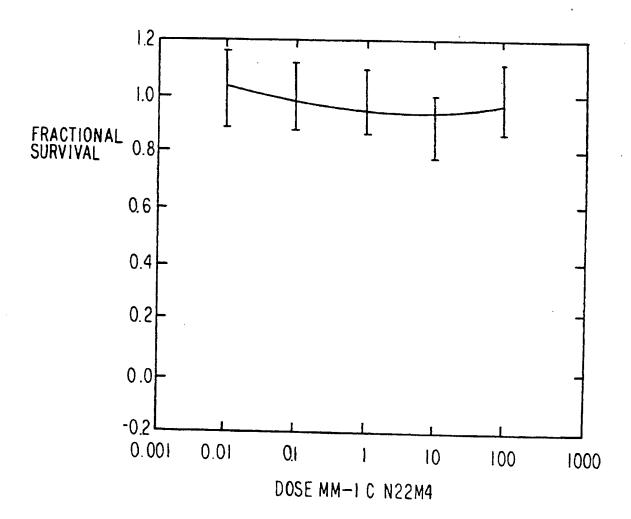


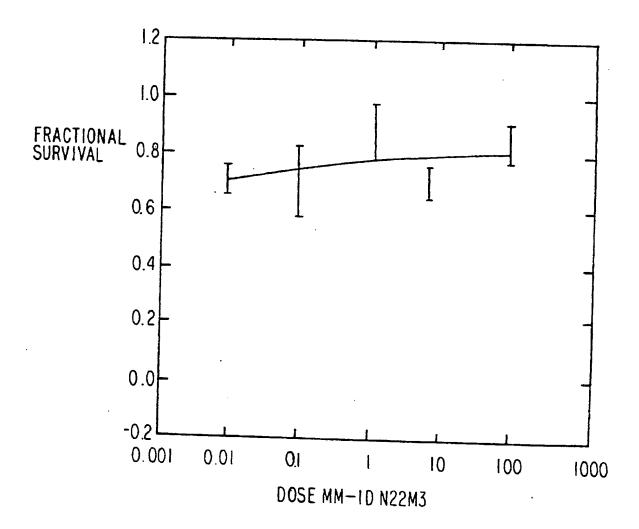


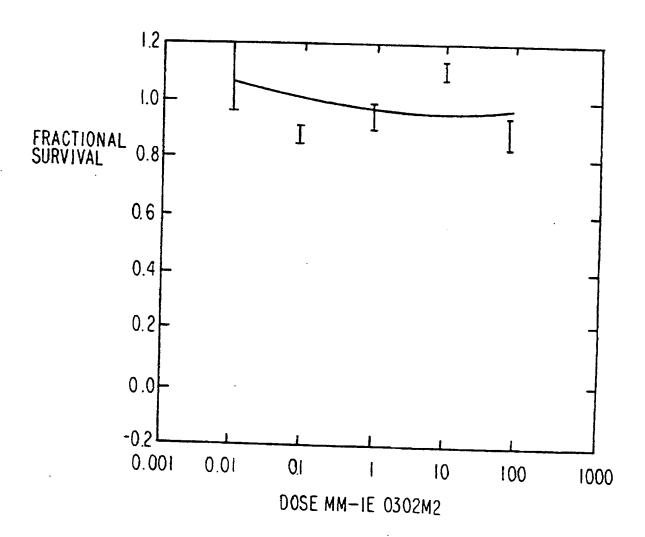












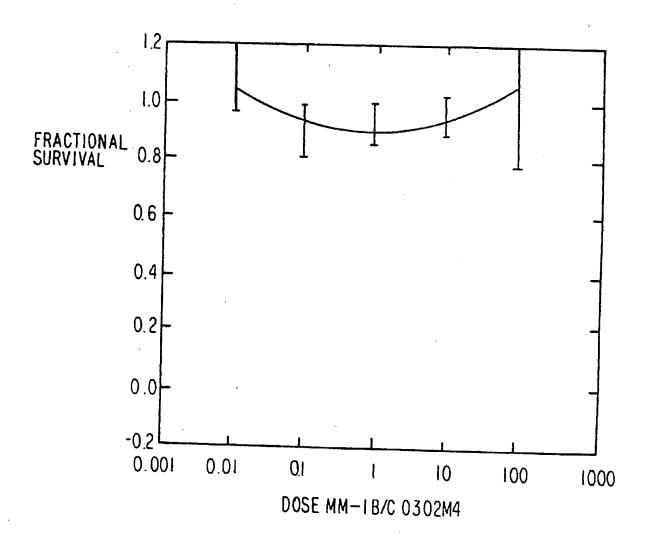
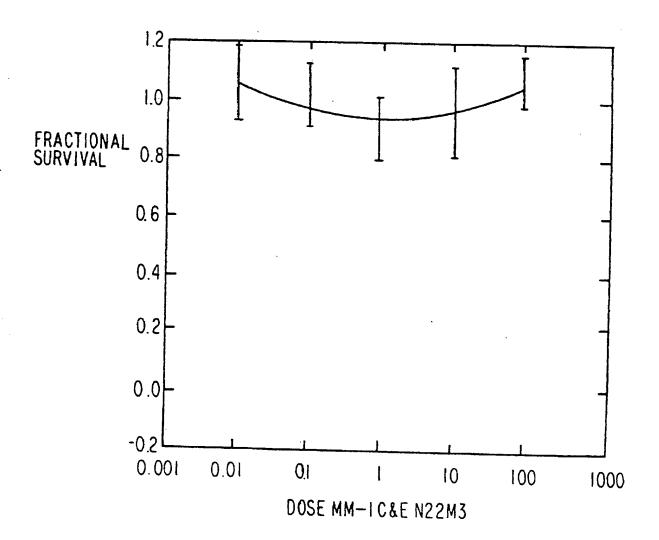
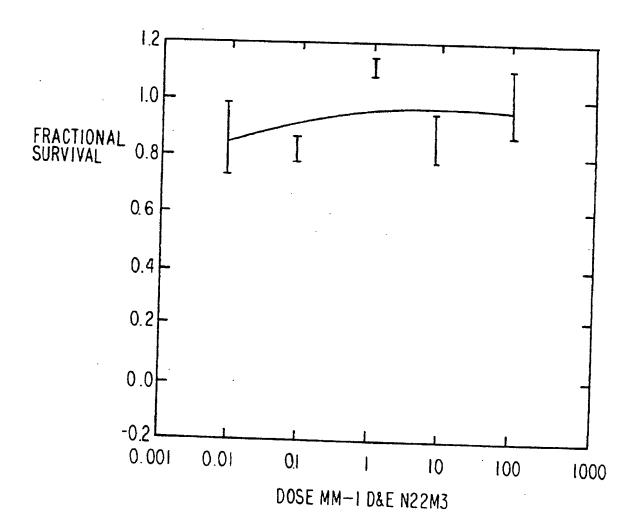
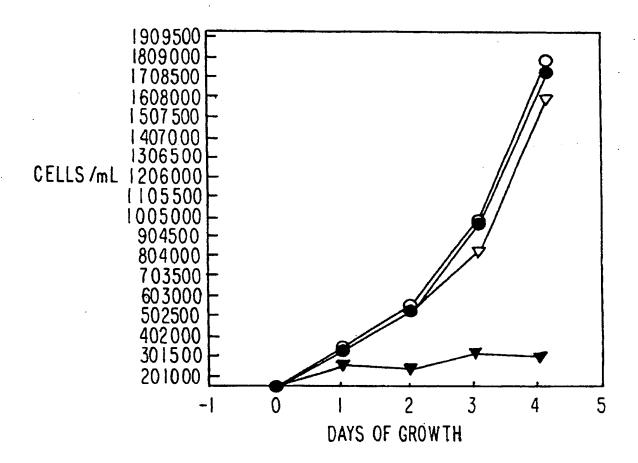


FIG. 13G





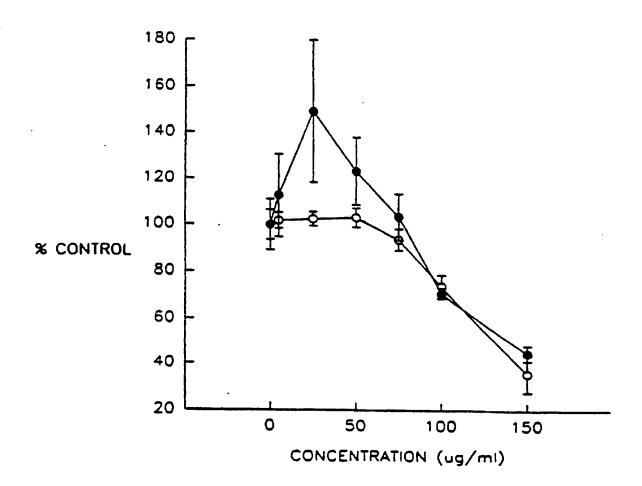


- **OCONTROL**

- •125 µg FRACTION D

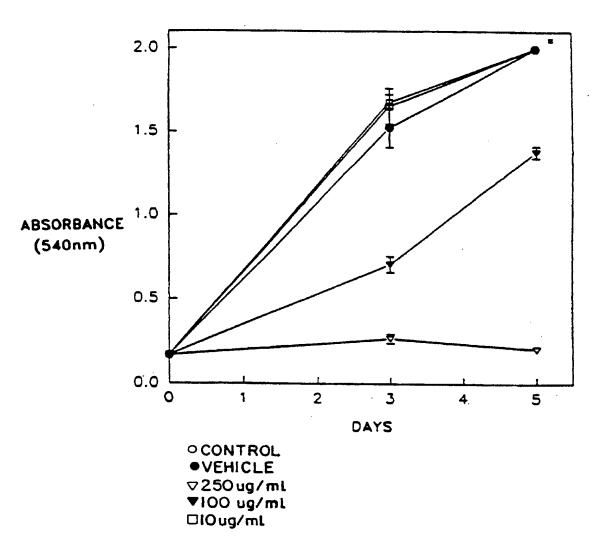
 ▼250 µg FRACTION D

 ▼500 µg FRACTION D

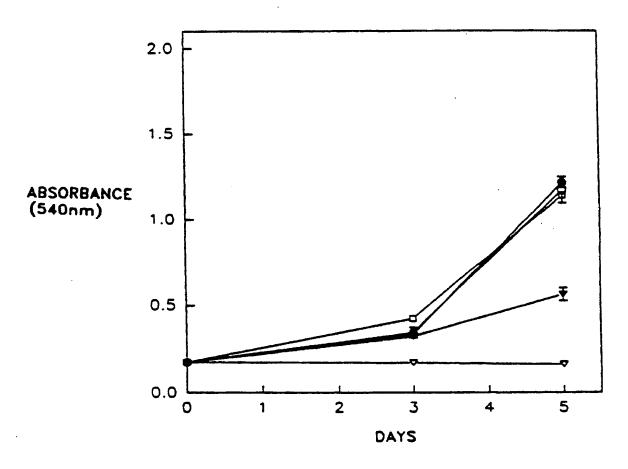


- O XTT STAINING
- CRYSTAL VIOLET STAINING

FIG. 15B

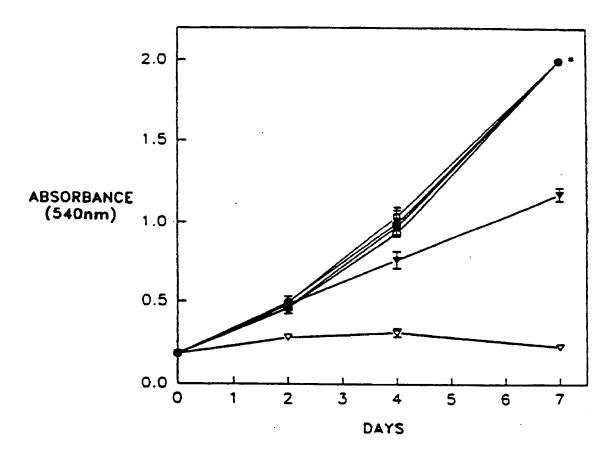


* NOTE: ABSORBANCE OF 2.0 INDICATES THE MAXIMUM ABSORBANCE OF THE PLATE READER. IT IS NOT REPRESENTITIVE OF CELL NUMBER.



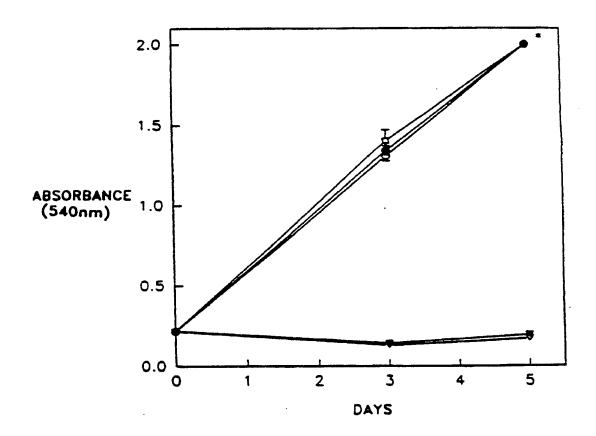
- © CONTROL VEHICLE □ 250ug/ml
- **▼100 ug/m1**
- □lOug/ml

FIG. 15D



- CONTROL VEHICLE CONTROL ▽ 250 ug/ml
- ▼ 100u g/ml □ 10ug/ml
- ■lug/mi
- *NOTE: ABSORBANCE OF 2.0 INDICATES THE MAXIMUM ABSORBANCE OF THE PLATE READER. IT IS NOT REPRESENTATIVE OF CELL NUMBER.

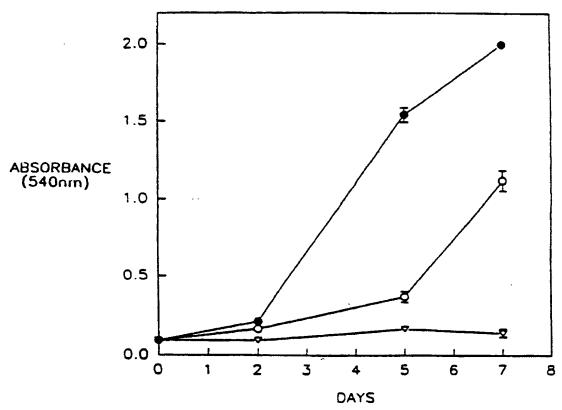
FIG. 15E



OCONTROL ●VEHICLE ▽ 250 ug/ml ▼IOO ug/ml □IOug/ml

*NOTE: ABSORBANCE OF 2.0 INDICATES THE MAXIMUM ABSORBANCE OF THE PLATE READER. IT IS NOT REPRESENTATIVE OF CELL NUMBER.

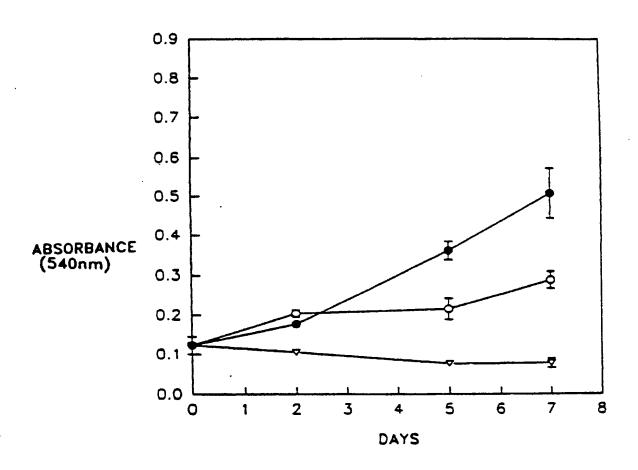
F1G.15F



O IOOug/mL FRACTIONS A-E (#64) ●IOOug/mL FRACTIONS A-C (#65) ▼IOOug/mL FRACTIONS D&E (#66)

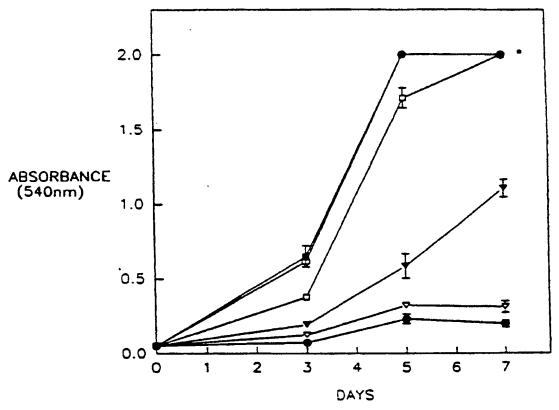
*NOTE: ABSORBANCE OF 2.0 INDICATES THE MAXIMUM ABSORBANCE OF THE PLATE READER. IT IS NOT REPRESENTATIVE OF CELL NUMBER.

F1G.15G



○ FRACTION A-E(#)64 ●FRACTION A-C(#)65 △FRACTION D&E(#)66

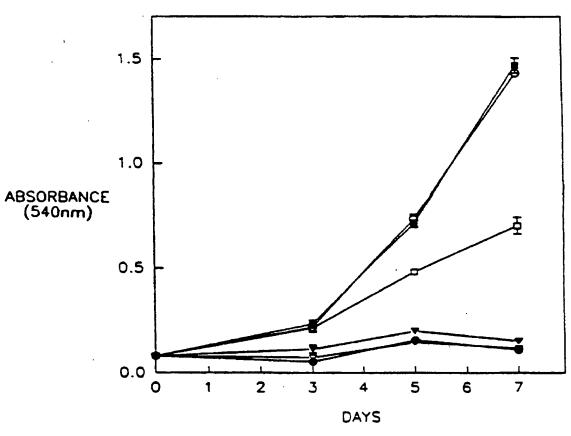
FIG. 15H



OCONTROL ●100ug/ml ▼75ug/ml ▼50ug/ml □25ug/ml ■10ug/ml

*NOTE: ABSORBANCE OF 2.0 INDICATES THE MAXIMUM ABSORBANCE OF THE PLATE READER. IT IS NOT REPRESENTATIVE OF CELL NUMBER.

F1G.15I



- O CONTROL

 100 ug/ml

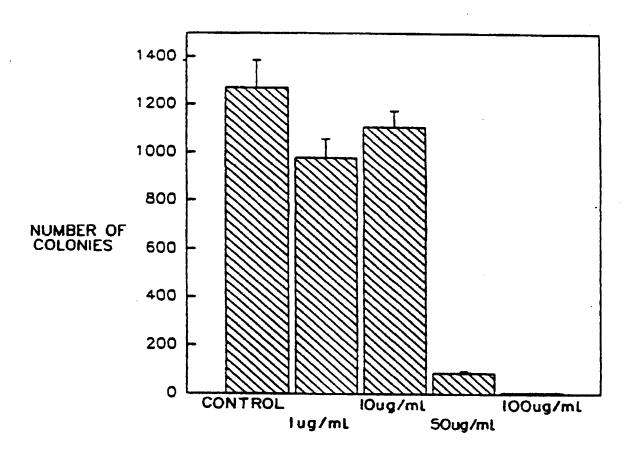
 ▼ 75 ug/ml

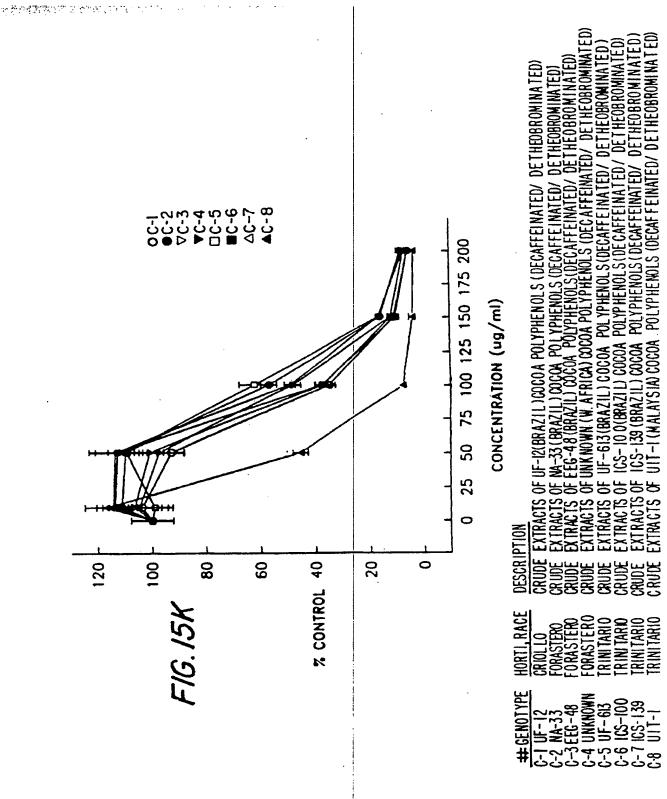
 ▼ 50 ug/ml

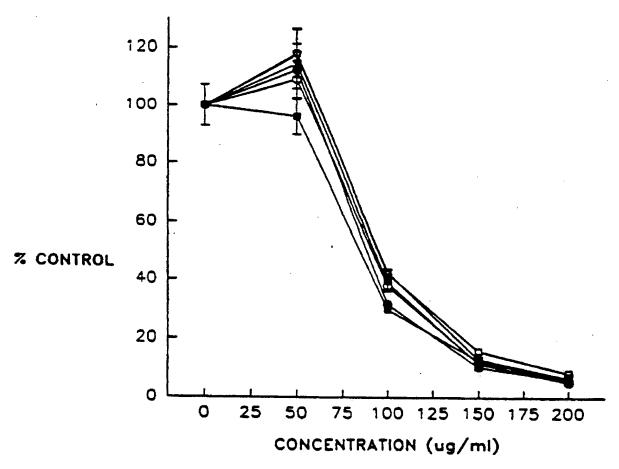
 □ 25 ug/ml

 10 ug/ml

FIG.15J



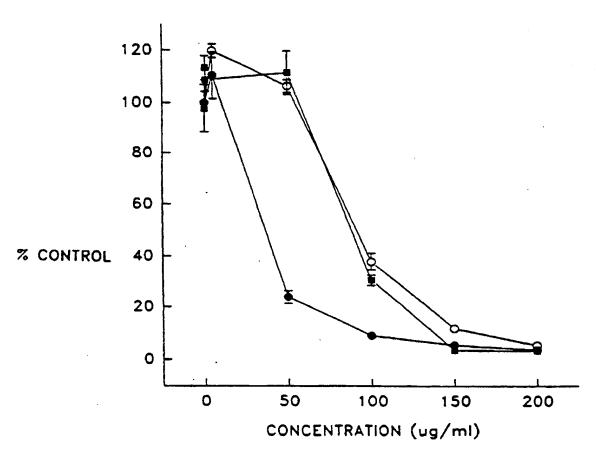




ODAY #O FRACTION ●DAY # I FRACTION ▼DAY # 2 FRACTION ▼DAY # 3 FRACTION □DAY # 4 FRACTION ■DAY # 9 FRACTION

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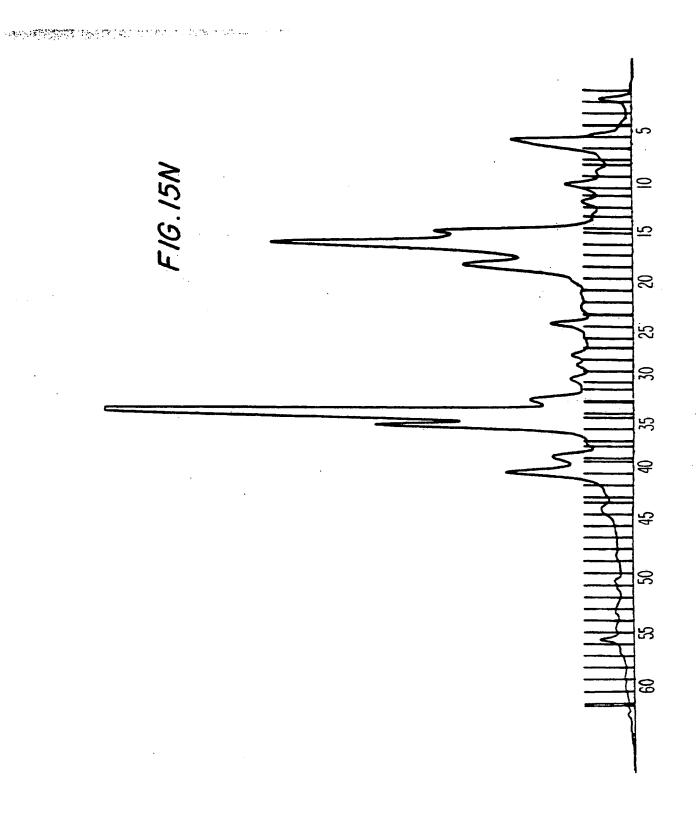
FIG. 15M

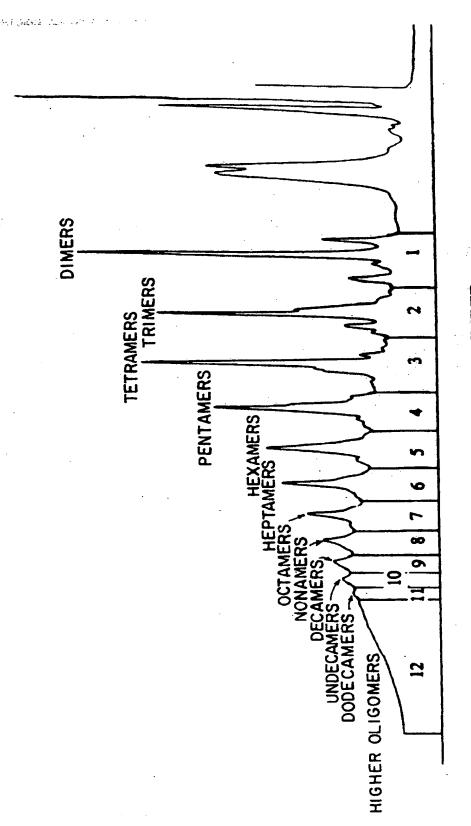


■ CRUDE UIT-I (WITH CAFFEINE & THEOBROMINE)

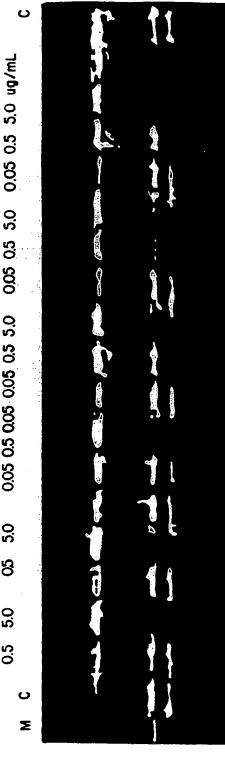
○ CRUDE UIT-I (WITH OUT CAFFEINE & THEOBROMINE)

● CRUDE UIT-I (POLYPHENOL OXIDASE CATALYZED)





FRACTION NUMBER



TOPOISOMERASE II IN THE PRESENCE OF 0.05,0.5 AND 50 µg/mL COCOA PROCYANIDIN FRACTION E. LANE 19 IS A REPLICATE OF KINETOPLAST DNA THAT WAS INCUBATED WITH TOPOISOMERASE II IN THE PRESENCE OF 5.0 µg/mL COCOA PROCYANIDIN FRACTION E. LANES3AND 4 CONTAIN KINETOPLAST DNA THAT WAS INCUBATED WITH TOPOISOMERASE II IN THE PRESENCE OF 0.5 AND 5.0 µg/ml cocoa procyanidin fraction a. Lanes 5 and 6 contain kinetoplast dna that was incubated with topoisomerase II in the LANES 2 AND 20 CONTAIN KINETOPLAST DNA THAT WAS INCUBATED WITH TOPOISOMERASE II IN THE TOPOISOMERASE II IN THE PRESENCE OF 0.05,0.5 AND 5.0 µg/ml COCOA PROCYANIDIN FRACTION D. LANES 10,11,12,16,17, AND 18 ARE REPLICATES OF KINETOPLAST DNA THAT WAS INCUBATED WITH PRESENCE OF 0.5 AND 5.0 µg/mL COCOA PROCYANIDIN FRACTION B. LANES 7,8,9,13,14 AND 15 ARE REPLICATES OF KINETOPLAST DNA THAT WAS INCUBATED WITH PRESENCE OF 4% DMSO, BUT IN THE ABSENCE OF ANY COCOA PROCYANIDINS (CONTROL-C) ANE I CONTAINS 0.5 ug OF MARKER (M) MONOMER-LENGTH KINETOPLAST DNA CIRCLES

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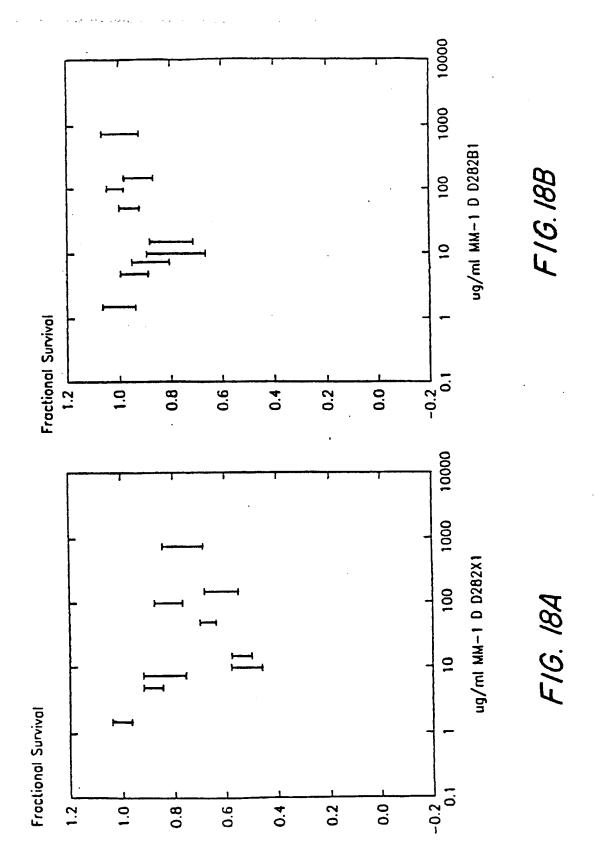
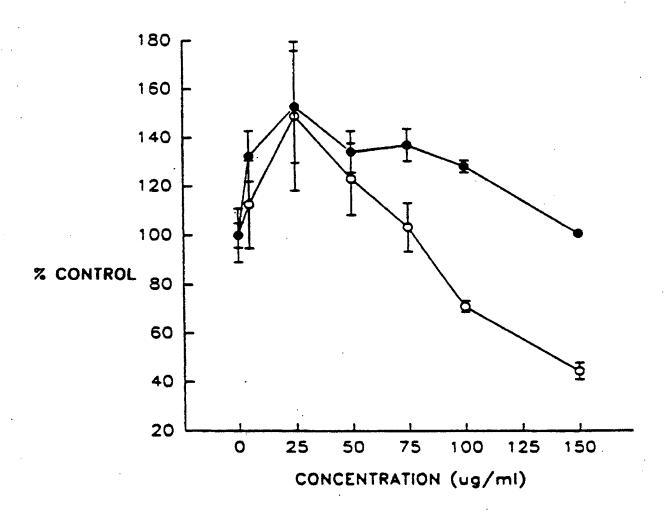


FIG. 19



OMCF-7p168 ●MCF-7ADR

